Andrew M Hernandez

List of Publications by Year
in descending order

28 papers	527 citations	759233 12 h-index	677142 22 g-index
28 all docs	28 docs citations	28 times ranked	467 citing authors

#	Article	IF	Citations
1	Tungsten anode spectral model using interpolating cubic splines: Unfiltered xâ€ray spectra from 20 kV to 640 kV. Medical Physics, 2014, 41, 042101.	3.0	139
2	Breast dose in mammography is about 30% lower when realistic heterogeneous glandular distributions are considered. Medical Physics, 2015, 42, 6337-6348.	3.0	63
3	Generation and analysis of clinically relevant breast imaging x-ray spectra. Medical Physics, 2017, 44, 2148-2160.	3.0	51
4	Longitudinal Evaluation of Left Ventricular Substrate Metabolism, Perfusion, and Dysfunction in the Spontaneously Hypertensive Rat Model of Hypertrophy Using Small-Animal PET/CT Imaging. Journal of Nuclear Medicine, 2013, 54, 1938-1945.	5.0	30
5	Dataset of patientâ€derived digital breast phantoms for in silico studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. Medical Physics, 2021, 48, 2682-2693.	3.0	26
6	Location and direction dependence in the 3D MTF for a highâ€resolution CT system. Medical Physics, 2021, 48, 2760-2771.	3.0	19
7	Average glandular dose coefficients for pendantâ€geometry breast <scp>CT</scp> using realistic breast phantoms. Medical Physics, 2017, 44, 5096-5105.	3.0	18
8	Updated breast <scp>CT</scp> dose coefficients (Dg<scp>N_{CT}</scp>) using patientâ€derived breast shapes and heterogeneous fibroglandular distributions. Medical Physics, 2019, 46, 1455-1466.	3.0	15
9	Shading artifact correction in breast CT using an interleaved deep learning segmentation and maximumâ€likelihood polynomial fitting approach. Medical Physics, 2019, 46, 3414-3430.	3.0	15
10	Conspicuity of suspicious breast lesions on contrast enhanced breast CT compared to digital breast tomosynthesis and mammography. British Journal of Radiology, 2019, 92, 20181034.	2.2	15
11	Validation of synthesized normalâ€resolution image data generated from highâ€resolution acquisitions on a commercial CT scanner. Medical Physics, 2020, 47, 4775-4785.	3.0	14
12	Effects of kV, filtration, dose, and object size on soft tissue and iodine contrast in dedicated breast CT. Medical Physics, 2020, 47, 2869-2880.	3.0	14
13	CT Phantom Evaluation of 67,392 American College of Radiology Accreditation Examinations: Implications for Opportunistic Screening of Osteoporosis Using CT. American Journal of Roentgenology, 2021, 216, 447-452.	2.2	13
14	The Effect of Iodine-based Contrast Material on Radiation Dose at CT: Itâ€™s Complicated. Radiology, 2017, 283, 624-627.	7.3	12
15	Multiâ€marker quantitative radiomics for mass characterization in dedicated breast CT imaging. Medical Physics, 2021, 48, 313-328.	3.0	12
16	Estimating a sizeâ€specific dose for helical head CT examinations using Monte Carlo simulation methods. Medical Physics, 2019, 46, 902-912.	3.0	10
17	Cone beam CT multisource configurations: evaluating image quality, scatter, and dose using phantom imaging and Monte Carlo simulations. Physics in Medicine and Biology, 2020, 65, 235032.	3.0	9
18	Two-dimensional breast dosimetry improved using three-dimensional breast image data. Radiological Physics and Technology, 2017, 10, 129-141.	1.9	8

#	Article	IF	Citations
19	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging. , 2019, , .		8
20	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms. Physica Medica, 2022, 97, 50-58.	0.7	8
21	Longitudinal Evaluation of Myocardial Fatty Acid and Glucose Metabolism in Fasted and Nonfasted Spontaneously Hypertensive Rats Using MicroPET/CT. Molecular Imaging, 2017, 16, 153601211772455.	1.4	6
22	Computer-aided diagnosis of masses in breast computed tomography imaging: deep learning model with combined handcrafted and convolutional radiomic features. Journal of Medical Imaging, 2021, 8, 024501.	1.5	5
23	High-resolution Î¼CT imaging for characterizing microcalcification detection performance in breast CT. Journal of Medical Imaging, 2021, 8, 052107.	1.5	5
24	Monte Carlo Basics for Radiation Dose Assessment in Diagnostic Radiology. Journal of the American College of Radiology, 2017, 14, 793-794.	1.8	4
25	Quantification of airway dimensions using a highâ€resolution CT scanner: A phantom study. Medical Physics, 2021, 48, 5874-5883.	3.0	4
26	A prototype Multi-X-ray-source array (MXA) for digital breast tomosynthesis. Physics in Medicine and Biology, 2020, 65, 235033.	3.0	3
27	Phantom-based standardization of CT angiography images for spot sign detection. Neuroradiology, 2017, 59, 839-844.	2.2	1
28	High resolution microcalcification signal profiles for dedicated breast CT. , 2020, 11312, .		0